## Scenario Worksheet

## Practice and Scenario Description:

Practice and Scenario Descript	ion:	
Information Type	Data	
Region	Delta States	
State	Louisiana	
Discipline Group	Environmental Engineering	
Practice Code/Name	313 - Waste Storage Facility	
Scenario ID	12	
Scenario Name	Dry Stack, concrete floor, wood wall	
Scenario Description	until they can be hauled away from th reducing the pollution potential to soi Potential Associated practices: 342-Ci	prohibit earthen floors. The purpose of this practice is to temporarily, properly store manure and other agricultural by-products e site for proper disposal or utilization on land at agronomical rates. This practice will address soil and water quality by it, surface water and ground water.  In this practice water and ground water.  It is a Planting, 362-Diversion, 561-Heavy Use Area Protection, 367-Roofs and Covers, 558-Roof Runoff Structure, 317-ling, 634-Waste Transfer, 635-Vegetated Treatment Area
Before Practice Situation	or other location, or are being transpo	ducts are not being utilized or controlled in an environmentally safe manner. The wastes are either accumulating at the source, orted but not properly utilized or disposed of. This situation poses an environmentally threat of excessive nutrients, organics, surface and groundwaters, in addition to the use of excessive amounts of fertilizers.
After Practice Situation	The typical is 4,000 SqFt (40' x 100'). To concrete curbing. Walls allow for great	The facility floor is 5" reinforced concrete with 5' pressure treated wood (2" x 8" boards) walls, 4' x 6" x 8' posts set 4' c-c with 6" atter storage volume. Manure and other agricultural by-products are being controlled, by the collection at the source, and stored itable location, until such time that they are disposed of or utilized in a proper manner, typically in accordance with a nutrient
Scenario Feature Measure	Square Foot Floor Area	

## **Cost Summary:**

Scenario Unit

Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$3,476.38	\$0.87
Equipment/Installation	\$24,323.44	\$6.08
Labor	\$1,671.30	\$0.42
Mobilization	\$998.84	\$0.25
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$30,469,96	\$7.62

Square Foot

Cost Details:							
Cost Category	Component ID	Component Name	Component Description	Unit	Price (\$/unit)	Quantity	Cost
			Treated dimension lumber with nominal				
			thickness equal or less than 2". Includes				
Materials	1044	Dimension Lumber, Treated	lumber and fasteners	Board Foot	\$0.73	1200	\$876.00
		Lumber, planks, posts and timbers,	Treated dimension lumber with nominal thickness greater than 2". Includes lumber and				
Matariala	1600	** **	fasteners. Does not include labor.	Board Foot	\$1.16	coc	\$807.36
Materials	1609	treated	Gravel, includes materials, equipment and	Board Foot	\$1.16	696	\$807.36
			labor to transport and place. Includes washed				
Materials	46	Aggregate, Gravel, Graded	and unwashed gravel.	Cubic yard	\$24.23	74	\$1,793.02
iviateriais	40	Aggregate, Graver, Graded	Steel reinforced concrete formed and cast-in-	Cubic yaru	J24.23	74	Ş1,793.02
			placed in formed structures such as walls or				
			suspended slabs by chute placement. Typical				
			strength is 3000 to 4000 psi. Includes				
			materials, labor and equipment to transport,				
Equipment/Installation	38	Concrete, CIP, formed reinforced	place and finish.	Cubic yard	\$333.36	18	\$6,000.48
			Steel reinforced concrete formed and cast-in-				
			placed as a slab on grade by chute placement.				
			Typical strength is 3000 to 4000 psi. Includes				
		Concrete, CIP, slab on grade,	materials, labor and equipment to transport,				
Equipment/Installation	37	reinforced	place and finish.	Cubic yard	\$209.92	84	\$17,633.28
			Bulk excavation of common earth including				
			sand and gravel with dozer >100 HP with				
		Excavation, common earth, large	average push distance of 150 feet. Includes				
Equipment/Installation	1223	equipment, 150 ft	equipment and labor.	Cubic Yard	\$3.00	148	\$444.00
			Earthfill, roller or machine compacted,				
Equipment/Installation	49	Earthfill, Roller Compacted	includes equipment and labor	Cubic yard	\$3.32	74	\$245.68
			Labor performed using basic tools such as				
			power tool, shovels, and other tools that do				
			not require extensive training. Ex. pipe layer,				
Labor	231	General Labor	herder, concrete placement, materials spreader, flagger, etc.	Hour	\$18.57	90	\$1,671.30
Labor	251	General Labor	spreader, ridgger, etc.	Hour	\$10.57	30	\$1,0/1.50
			Equipment >150HP or typical weights greater				
			than 30,000 pounds or loads requiring over				
Mobilization	1140	Mobilization, large equipment	width or over length permits.	Each	\$249.71	4	\$998.84
MODIFICATION	1140	obilization, large equipment	maar or over length permits.	Lucii	7273.71		7JJ0.04

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